

TIKHONOV, I

Osnovnoy ekonomicheskiy zakon sovremennogo kapitalizma (Basic economic law of modern capitalism. Moskva, Gospolitizdat, 1953.

126 p.

Bibliographical Footnotes.

SO: N/5

782

.T5

TIKHONOV, I., polkovnik, kandidat istoricheskikh nauk.

Vistula-Oder operation. Voen.znan. 29 no.8:10-11 Ag '53. (VLR 6:8)  
(World War, 1939-1945--Campaigns)

COUNTRY : USSR  
CATEGORY : Farm Animals.  
The Swine.  
ABS. JOUR. : RZhBiol.. No. 3, 1959, No. 12093  
AUTHOR : Tikhonov, I.  
IND. :  
TITLE : Rearing Purring Sows in Groups and on a Dry Diet.  
ORIG. PUB. : S. Kh. Sibir, 1958, No 4, 54-57  
ABSTRACT : It was established that rearing nursing sows with piglets in groups under the work of one pig-tender easier, reduces the need for workers, decreases the expenditure of labor and costs expended for a production unit.

Card:

1/1

TIKHONOV, I.

6421. Tikhonov, I. i Zvonkov, V. Osnovnoy ekonomicheskoy zakon  
sotsializma. L., Lenizdat, 1954. 112 s 20 sm. 10,000 ekz. i R.  
zo k. --- (55-2356) P

SO: Knizhnaya Letopis' No. 6, 1955.

TIKHONOV, I., prof.

High socialist production rates are the basis for the improvement of the national welfare. Fin. SSSR 21 no.9:21-30 S '60. (MIRA 13:9)  
(Cost and standard of living)

TIKHONOV, I., prof.

Creating the material and technical foundation for communism  
and increasing the efficiency of capital investments. Fin.  
SSSR 23 no.2:19-25 F '62. (MIRA 15:2)  
(Capital investments)

LARIONOV, K. (Leningrad); TIKHONOV, I. (Leningrad)

Interpreting several economic problems in a course on the economics  
of socialism. Vop. ekon. no. 1:142-149 N '61. (MIRA 14:11)  
(Economics) (Communism)

TIKHONOV, I.

4240. TIKHONOV, I. -- Osnovnoy ekonomicheskiy zakon sovremennogo kapitalizma.  
Kazan', tatknigoizdat, Ped. Polit. I. ict. lit, 1954 135 c. 20 sm. 4.000  
ekz. 1 p. 60 k. -- Na tatar. yaz. -- (54-55476)

SO: Knizhnaya Letopsis', Vol. 1, 1955



TIKHONOV, I.

Technological progress and depreciation of the basic means of production.  
Fin.SSSR 17 no.3:45-56 Mr '56. (MIRA 9:7)

(Depreciation) (Machinery in industry)

TIKHONOV, I., doktor ekonom.nauk, prof. (Leningrad)

"Marketing costs in retail trade" by A.I.Abaturon. Reviewed  
by I.Tikhonov. Sov. torg. 36 no.11:46-48 N '62. (MIRA 16:1)  
(Marketing—Costs) (Abaturon, A.I.)

TIKHONOV, I., dotsent

How to prepare and conduct a programmed instruction class.  
Prof.-tekhn. obr. 22 no. 8:16-17 Ag '65.

(MIRA 18:12)

TIKHONOV, I.A., inzhener.

Selecting the hoisting capacity of cranes for the hoisting of transformers on  
towers of substations. Elek.sta. 24 no.10:52 0 '53. (MIRA 6:10)  
(Electric transformers) (Cranes, derricks, etc.)

TIKHONOV, IVAN ARTEM'YEVICH

N/5  
781  
.T5

Rost material'nogo blagosostoyaniya sovetskogo naroda (Growth of the material welfare of the Soviet people) Moskva, Moskovskiy Rabochiy, 1954.  
59 p. tables.

~~TIKHONOV, I. A.~~

Subject : USSR/Electricity

AID P - 2527

Card 1/1 Pub. 26 - 11/32

Author : Tikhonov, I. A., Eng.

Title : ~~On improving the standard design and decreasing the construction cost of substations~~  
On improving the standard design and decreasing the construction cost of substations

Periodical : Elek sta, 6, 35-36, Je 1955

Abstract : The standard design of the layout and equipment of distribution substations with 6-10 kv switchgears and 1,000 - 15,000 kva transformers as established by TEP (Trust for Planning and Investigation of Thermal and Electric Power Plants, Networks and Substations) is criticized. Recommendations are made for more advantageous locations of various equipment and for changes in structural dimensions. One diagram.

Institution : None

Submitted : No date

DAVYDOV, B.I.; TIKHONOV, I.A.; NIKOLAYEV, N.I., kand.ekon.nauk, nauchnyy  
red.; VASIL'YEV, A.V., red.izd-va; GURDZHIYEVA, A.M., tekhn.red.

[Role of technical progress in the steady growth of labor productivity  
in Soviet industry] Rol' tekhnicheskogo progressa v neuklonnom roste  
proizvoditel'nosti truda v promyshlennosti SSSR. Leningrad, Ob-vo po  
rasprostraneniю polit. i nauchn.znaniy RSFSR, Leningr. otd-nie.  
1958. 46 p. (MIRA 11:5)

(Labor productivity) (Russia--Industries)

TIKHONOV, Ivan Artem'yevich, doktor ekonom. nauk, prof.; NOSOV, F.V.,  
doktor istor. nauk, red.; ILLYUMINARSKIY, K.L., red.; SHERMU-  
SHENKO, T.A., tekhn. red.

[Main economic problem of the U.S.S.R.] Osnovnaia ekonomicheskai  
zadacha SSSR. Pod obshchei red. F.V.Nosova. Leningrad, Lenizdat,  
1960. 53 p. (MIRA 14:8)

(Competition, International)



LARIONOV, K.A., prof.; KADACHIGOV, V.M., prof.; KUZHELEV, N.S., dotsent;  
LOPUKHOV, L.S., dotsent; TIKHONOV, I.A., prof.; TSAPKIN, N.V.,  
dotsent; CHESHOKOV, P.A., dotsent. V redaktirovani priminal  
uchastiye BOYKOV, S.I.. AZAROV, E.K., red.; LEVONEVSKAYA, L.G.,  
tekh.n.red.

[Political economy; textbook for students of economic theory]  
Politicheskaya ekonomiya; posobie v pomoshch' izuchaiushchim  
voprosy ekonomicheskoi teorii. Leningrad, Lenizdat, 1960.  
362 p. (MIRA 13:7)

(Economics)

TIKHONOV, Ivan Artem'yevich; SHCHEDRENOK, Vladimir Petrovich;  
PISKUNOV, V.T., red.; BAZLOVA, Ye.M., ml. red.;  
PONOMAREVA, A.A., tekhn. red.

[Main economic task and the technological progress in the  
U.S.S.R.] Glavnaia ekonomicheskaiia zadacha i tekhnicheskii  
progress v SSSR. Moskva, Ekonomizdat, 1963. 246 p.

(MIRA 16:9)

(Technology) (Russia--Economic policy)

LARIONOV, K.A., prof.; KADACHIGOV, V.M., prof.; KUZHELEV, N.S.,  
dots.; LOPUKHOV, L.S., dots.; TIKHONOV, I.A., prof.;  
TSAPKIN, N.V., prof.; CHESNOKOV, P.A., dots.;  
KASHUTIN, P.A., dots., red.; MITINA, M., red.;  
KOROLEVA, A., mlad. red.; MCKVINA, R., tekhn. red.

[Economics] Politicheskaya ekonomiya; uchebnoe posobie.  
Moskva, Sotsekgiz, 1963. 430 p. (MIRA 16:9)  
(Economics)

TIKHONOV, I.F., inzhener.

Siphon spillways with a funnel-shaped damper. Gidr.1 mel. 6 no.1:  
56-59 Ja '54. (MLRA 7:1)  
(Spillways)

1ST AND 2ND ORDERS																										PROCESSOR AND PROPERTIES INDEX																										140 AND 15TH ORDERS																									
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<p>621.316.99 : 621.314.2.045</p> <p>2973. Earthing of the neutral points of transformer windings in 380 V systems. I. P. TERNOSOV. <i>Elektrichestvo</i>, No. 4, 63-4 (April, 1951) 1a Russian.</p> <p>The earthing of the neutral points of the power transformers in 380 V systems reduces electrocution dangers, as well as the number of breakdowns, and therefore increases the reliability and continuity of the supply and simplifies the operation of industrial electrical equipment. This applies equally to distribution and station transformers. This author's opinion is contradicted by the compilers of the existing official rules for the layout of electric plants. B. F. KRAUS</p>																																																																													
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TIKHONOV, I.P., inzhener.

Porous concrete filters for dug wells. Gidr.i mel. 8 no.7:46-50  
Jl '56. (MIRA 9:9)

(Filters and filtrations) (Wells)

TIKHONOV, I. I.

Head for paint spray guns. Rats, i izobr. predl. v stroi.  
no.105:10-11 '54. (MIRA 8:10)  
(Spray painting)

TIKHONOV, I. F.

Experience of treating horses in infectious encephalomyelitis.

SO: TABCON Veterinariya; 23; 5-6; May/June 1946; Unclassified.

Veterinarian, Kurmysh Rayon Veterinary Hospital, Gor'kiy Oblast'.



PHASE I BOOK EXPLOITATION SOV/3529

Tikhonov, Ivan Ivanovich

Radioelektronika i yeye voyennoye primeneniye (Radio Electronics and Its Military Use) Moscow, Izd-vo DOSAAF, 1960. 78 p. 26,700 copies printed.

Eds.: Ya. G. Varaksin and I. M. Filimonov; Tech. Ed.: F. Ya. Faynshmidt.

**PURPOSE:** This booklet is intended for readers having an elementary background in electrical and radio engineering.

**COVERAGE:** The booklet gives general information on the construction and purpose of radio-electronic equipment and describes military possibilities and fields of application of radio-electronic equipment. Some material from non-Soviet literature is used in the booklet. No personalities are mentioned. There are 11 Soviet references, 4 of which are translations.

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Radio Electronics and Its Military Use

SOV/3529

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AVAILABLE: Library of Congress

Card 2/2

JP/fal  
5-23-60

TIKHONOV, Ivan Ivanovich; KASHIN, N.V., otvetstvennyy red.; ISAYEV, V.A.,  
red.; SHISHKOVA, L.M., tekhn.red.

[Mineral-ceramic cutting tools and milling cutters; practices of  
the "Krasnoe Sormovo" Plant] Mineralokeramicheskie reztsy i frezy;  
iz opyta zavoda "Krasnoe Sormovo." Leningrad, Gos. Soiuznoe izd-vo  
sudostroitel. promyshl., 1957. 70 p. (MIRA 11:5)  
(Cutting tools)

TIKHONOV, I.I., inzh. (g. Gor'kiy)

Cutting tools made of corundum ceramics [microlite TSM-332] Politekh. .  
obuch. no. 2:64-73. F '59. (MIRA 12:3)  
(Metal-cutting tools)

PHASE I BOOK EXPLOITATION 900

Tikhonov, Ivan Ivanovich

Mineralokeramicheskiye reztsy i frezy; iz opyta zavoda "Krasnoye Sormovo" (Ceramic-tipped Cutting Tools and Milling Cutters; from Experience at the "Krasnoye Sormovo" Plant) Leningrad, Sudpromgiz, 1957. 7,000 copies printed.

Resp. Ed.: Kashin, N.V.; Ed.: Isayev, V.A.; Tech. Ed.: Shishkova, L.M.

PURPOSE: This booklet is intended for engineers, technical personnel, and innovators working in the field of metal cutting.

COVERAGE: The booklet describes new designs of ceramic-tipped cutting tools and milling cutters. Methods of sharpening and dressing tools, cutting regimes, and other problems connected with their use are presented. In preparing the booklet the author utilized his experience with ceramic-tipped tools gained at the "Krasnoye Sormovo" Plant. The following laboratory workers who took part in solving various problems connected with the use of new tools at the plant:

Card 1/4

Ceramic-tipped Cutting Tools and Milling Cutters (Cont.) 900

A.P.Kuznetsov, Candidate of Technical Sciences; Engineers:  
I.I.Tikhonov, A.I.Gusev, and I.T.Korotkov; technicians:  
M.F.Belyayev, A.Ya.Kupriyanov; machinists: A.A.Loginov, A.M.Godyayev,  
A.G.Prokhorov and A.N.Sorokin. The author thanks V.N.Mints,  
Engineer for his assistance in preparing the manuscript for printing.  
There are 7 Soviet references.

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- Ceramic-tipped Cutting Tools and Milling Cutters (Cont.) 900
  - Appendix 6. Correction Coefficients for Regimes of Cutting Gray  
Cast Iron With Ceramic Face Millers Depending on Various Factors 70
- AVAILABLE: Library of Congress (TJ1186.T525)

GO/whl  
11-26-58

Card 4/4



USSR/Microbiology - General Microbiology

F

Abs Jour : Ref Zhur Biol., No 1, 1959, 656

Author : Tikhonov, I.I.

Inst : -

Title : Nutrient Media for Growing Diphtheria Bacilli

Orig Pub : Biol. Tsentr. n.-i. labor. Gigeny i epidemiol., 1957,  
No 2, 21

Abstract : No abstract.

Card 1/1

TIKHONOV, I.I., inzh.

Geometric parameters of mineral-ceramic cutting tips. Mashinostroitel'  
no.3:26 Mr '58. (MIRA 11:2)

(Metal-cutting tools)

*TIKHONOV, I.I.*  
USSR/Miscellaneous - Machine tools

Card 1/1      Pub. 103 - 16/23

Authors      :    Kuznetsov, A. P., and Tikhonov, I. I.

Title        :    Grinding and lapping of mineral-ceramic plate for tools

Periodical   :    Stan. i instr. 2, 35-36, Feb 1954

Abstract     :    Various methods are introduced for the grinding and lapping of mineral-ceramic, high temperature resistant plates used for machine tools. The attachments used for the grinding are described. Drawings.

Institution   :    .....

Submitted    :    .....

KUZNETSOV, A.P.; TIKHONOV, I.I.

Grinding and polishing mineral-ceramic blades for tools. Stan.1  
instr. 25 no.2:35-36 P '54. (MLRA 7:5)  
(Cutting tools)

*I. I. Tikhonov*  
AUTHOR:

Tikhonov, I.I., Engineer

117-3-10/28

TITLE:

Geometric Parameters of Mineral-ceramic Tip Plates for Cutters  
and Mills (Geometricheskiye parametry mineralokeramicheskikh  
plastinok dlya reztsov i frez)

PERIODICAL:

Mashinostroitel', 1958, # 3, p 26 (USSR)

ABSTRACT:

The article describes and illustrates mineral-ceramic tool  
tips used at the plant "Krasnoye Sormovo" for cutting cast iron,  
carbon steel, alloy and stainless steel of all grades.  
There is 1 figure.

AVAILABLE:

Library of Congress

Card 1/1

TIKHONOV, I. I., ENG.

Metal Cutting

Smoothness of surface obtained by grinding and cutting.  
Vest. mash. 32 No. 5, 1952.

Monthly List of Russian Accessions, Library of  
Congress, October 1952. UNCLASSIFIED.

TIKHONOV, I. I.

Metal Cutting.

Cutting conditions for cut-off tools in lathe work. Stan. i instr., 23, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1954, 2 Uncl.

TIKHONOV, I. I.

Lathes

Cutting conditions for cut-off tools in lathe work. Stan. i instr., 23, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.



TIKHONOV, I. I.

Lathes.

Cutting conditions for cut-off tools in lathe work, Stan. 1 instr. 23,  
No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

TIKHONOV, I.I.

Prevention of food poisoning due to lead in connection with the  
preparation of chanakhi in glazed earthenware. Vop. pit. 20  
no.4:80-81 JI-Ag '61. (MIRA 14:7)

1. Iz sanitarno-epidemiologicheskoy stantsii, stantsiya Ordzhonikidze  
Severo-Kavkazskoy zheleznoy dorogi.  
(FOOD CONTAMINATION) (LEAD POISONING)

TIKHOMOV, I. I.

Metal Cutting

Cutting conditions for cut-off tools in lathe work. Stan. i instr., 23, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.

TIKHONOV, I.I., kandidat istoricheskikh nauk, polkovnik.

[Battle at Kursk; July - August 1943] Bitva pod Kurskom (Iul'-avgust 1943  
goda). Moskva, Izd-vo "Znanie", 1953. 31 p. (MLBA 6:10)  
(Kursk, Battle of, 1943)

TIKHONOV, Ivan Nikolayevich; RYBAK, Ye.D., red.; SHEVCHENKO, L.V.,  
tekh.n.red.

[Kem'; a brief study on the history and local lore of the  
city and the district] Kem'; kratkii istoriko-kraevedcheskii  
oчерk o gorode i raione. Petrozavodsk, Gos.izd-vo Karel'skoi  
ASSR, 1958. 51 p. (MIRA 13:2)

(Kem' District--History  
(Kem' District--Economic conditions)

TIKHONOV, I.T. ~~See~~ Cand Agr Sci -- (diss) " Effect of ~~the~~  
various levels of <sup>protein</sup> albumen and vitamin feeding <sup>up to</sup> on growth and  
~~development of pigs under reconiditioning~~ <sup>Supernumerary young female</sup> and on their sub-  
sequent productivity." Mos, 1957. 16 pp 20 cm. (All-Union  
Order of Lenin Academy of Agr Sciences im <sup>V.</sup> P.I. Lenin. All-  
Union Scientific Research Ins of Cattle-Breeding<sup>Animal Research</sup>), 110 copies  
(KL, 21-57, 104)

-85-

KIL'KOV, N.S., inzh.; SLOSMAN, I.V., dots., kand.tekhn.nauk; TIKHOMOV, I.T., dots., kand.tekhn.nauk; TOPOROV, G.V., dots.; ~~FILATOVA, E.F., inzh.~~

Isothermal hardening of Kh12F die steel. Izv.vys.ucheb.sav.; chern.met. no.9:91-95 S '58. (MIRA 11:1)

1. Tomskiy politekhnicheskii institut i Tomskiy elektromekhanicheskii zavod.

(Chromium steel--Hardening)

S/137/62/000/008/054/065  
A006/A1C1

AUTHORS: Slosman, I. V., Tikhonov, I. T., Toporov, G. V., Kil'kov, N. S.,  
Filatova, E. F.

TITLE: The effect of various types of heat treatment upon the properties  
of high-chromium stamping steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 133 - 134, abstract  
81920 ("Sb. nauchn. tr. Tomskiy inzh.-stroit. in-t", 1961, v. 9,  
26 - 45).

TEXT: Specimens of high-chromium steels, grade X12  $\Phi$  (Kh12F) (1.4% C,  
11.5% Cr, 0.3% V) and grade X12 $\Phi$ 1 (Kh12F1) (1.4% C, 12% Cr, 0.62% V) were sub-  
jected to isothermal quenching from 1,000 - 1,040°C and held at temperatures  $> M_s$ ;  
to long-lasting isothermal quenching at temperature ranges below martensite  
transformation, and to conventional quenching with subsequent cold treatment and  
tempering at elevated temperatures. To raise the impact resistance of Kh12F-steel  
die parts, isothermal quenching by one of the following methods is recommended:  
a) heating to 1,040°C, isothermal quenching during 2 - 6 hours at 250°C; b) heat-

Card 1/2



The effect of various types of...

S/137/62/000/008/054/055  
A006/A101

ing to 1,020°C and isothermal quenching for 2 - 6 hours at 270 - 280°C. After applying the aforementioned conditions of isothermal quenching, a considerable amount of intermediate-range structures are formed in the steel whose strength is somewhat below the martensite strength; the strength of the steel, however, remains sufficiently high for the operational die parts. Long-lasting isothermal quenching of high-chromium steels, in the range of martensite transformation at 18 - 120°C and up to 100 hours holding time did not increase the impact strength of these steels. Literature data indicating the possibility of raising  $a_k$  of steel by additional cold treatment were not confirmed by the tests. There are 8 references. ✓

A. Babayeva

[Abstracter's note: Complete translation]

Card 2/2

S/123/62/000/G18/007/012

A006/A101

AUTHORS: Slosman, I. V., Tikhonov, I. T., Toporov, G. V., Kil'kov, N. S.,  
Filatova, E. F.

TITLE: The effect of various types of heat treatment upon the properties  
of high-chromium stamping steels

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 18, 1962, 16,  
abstract 18B101 ("Sb. nauchn. tr. Tomskiy inzh.-stroit. in-t",  
1961, 9, 26 - 45)

TEXT: The properties of grade X12  $\Phi$  (Kh12F) and X12  $\Phi$  1 (Kh12F1) steels  
were determined after heat treatment under conventional conditions. The steels  
were found to be low-resistant to impact loads and the toughness of the specimens  
decreased when quenching was performed from 1040°C and more. The impact resist-  
ance increases noticeably after isothermal quenching of Kh12F steel from 0 to  
1020 - 1040°C with holding at 250 - 280°C for 2 - 6 hours. Literature data on  
the possibility of raising the resistance of high-chromium steels to impact loads  
by additional cold treatment were not confirmed by the experiments carried out

Card 1/2

The effect of various types of heat treatment upon... 3/123/62/000/018/007/012  
in the described study. There are 14 figures. A006/A101

T. Kislyakova

[Abstracter's note: Complete translation]

Card 2/2

USSR/Farm Animals - Swine.

Q-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, 2613

Author : I.T. Tikhonov

Inst : -

Title : The Effect of Feed Fortified with Protein and Vitamin-A,  
on the Growth and Productivity of Pigs.

Orig Pub : Svinovodstvo, 1957, No 3, 37-40

Abstract : An increase of the amount of digestible protein by 86-112 grams, and of Vitamin-A to 50,000 international units in the daily ration of pigs increased the weight of the animals by 8-12%. It also contributed to an accelerated growth and development of the animals. This increased amount of proteins and Vitamin-A in the feed of the animals increased the fertility of the sows by 14-22%, the size of the offsprings by 9-21%, and the milk secretions of the sows 20-25%, in comparison with the sows of the control group.

Card 1/1

CA  
Structure and properties of cellulose and its esters.  
XXII Nitration of cellulose in homogeneous medium.  
Z. A. Rogovin, K. Tikhonov, and A. Maslova. *J. Appl. Chem. (U.S.S.R.)* 19, 650-67 (1946) (in Russian).

cl. C-1. 40, 3990<sup>1</sup>. Nitration of bleached linit in soln. in mixts. of HNO<sub>3</sub> and MeNO<sub>2</sub> in varying wt. ratios at 35° gave transparent sirupy products from which nitrocellulose was pptd. on pouring into water. With 95% HNO<sub>3</sub>; MeNO<sub>2</sub> = 2:8, 3:7, 4:6, 5:5, 6:4, 7:3, the N contents of the product (stabilized by boiling in 60% AcOH and dried) after 2 hrs. reaction were 0.9, 0.0, 10.1, 10.5, 11.55, and 12.5%; soly. in Me<sub>2</sub>CO, MeNO<sub>2</sub>, and in the nitrating mixt. was complete only from 10% N upwards. The concn. of the initial HNO<sub>3</sub> (i.e., the H<sub>2</sub>O content of the mixt.) has a very marked effect: with 91, 93, 97.5, and 100% HNO<sub>3</sub> in HNO<sub>3</sub>; MeNO<sub>2</sub> = 40:60, 2 hrs. at 35°, the product contained 7, 9.3, 10.1, 12.4-13.3, and 13.7-14% N; the highest-N product, however, was insol. in MeNO<sub>2</sub> and in the nitrating mixt. Part of the MeNO<sub>2</sub> (up to 60%) can be replaced by diluents such as CH<sub>2</sub>Cl<sub>2</sub> or CH<sub>3</sub>Cl, with a gain in soly.; completely sol. products with 10.9 and 11.2% N were obtained with HNO<sub>3</sub> (95%); MeNO<sub>2</sub>; CH<sub>2</sub>Cl<sub>2</sub> = 40:30:30 and 40:25:35, and a sol.

0.25% N product with 95% HNO<sub>3</sub>; MeNO<sub>2</sub>; CH<sub>2</sub>Cl<sub>2</sub> = 30:30:40. By use of 100% HNO<sub>3</sub>, a completely sol. 10.9% N product was obtained with as little as HNO<sub>3</sub>; 20% MeNO<sub>2</sub>; 40; CH<sub>2</sub>Cl<sub>2</sub>; 40. A lower-mol. diluent (CH<sub>2</sub>Cl<sub>2</sub>) leads to a somewhat higher degree of nitration than a higher mol. one (CH<sub>3</sub>Cl). In terms of time, the degree of nitration increases during the first 2 hrs., after which it does not significantly increase with further prolonged reaction: HNO<sub>3</sub>; MeNO<sub>2</sub> = 40:60, 0.5, 1, 2, 6, 24 hrs. at 35° gave 5.5, 9, 10.1, 10.2, 10.1% N. In terms of temp., nitration is insignificant at 0° and will not exceed 7.9% even after 20 hrs. at 20°, a 10.1% N product cannot be obtained at lower than 30°. The specific viscosity in 0.25% soln. in acetone of the product (9.3% N) obtained at 40° 2 hrs. with HNO<sub>3</sub>; 37, MeNO<sub>2</sub>; 60, H<sub>2</sub>O 3 was 0.35, as against 1.55 for the product (12% N) of nitration at the same temp. and same time, with HNO<sub>3</sub>; 25, H<sub>2</sub>SO<sub>4</sub>; 65, H<sub>2</sub>O 10. Homogeneous nitration seems to result in relatively greater degradation of the cellulose; on standing, degradation continues and viscosity drops further.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

157 AND 158 COLUMNS      PROCEEDS AND PROCEEDS WITH

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27

**Investigation of the Structure and Properties of Cellulose and Its Esters. Part XXII. Nitration of Cellulose in an Homogeneous Medium. (In Russian.)** Z. Rogovin K. Tikhonov, and A. Maslova. *Journal of Applied Chemistry* (U.S.S.R.), v. 19, no. 7, 1946, p. 659-667.

A method of cellulose nitration has been developed using as a nitrating mixture the binary compound of nitric acid with nitromethane or the ternary compound of nitric acid, nitromethane, and dichloromethane or methylene chloride. The influence of various factors on the process was studied.

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157 AND 158 COLUMNS      PROCEEDS AND PROCEEDS WITH

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157 AND 158 COLUMNS      PROCEEDS AND PROCEEDS WITH

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**Investigation of the Structure and Properties of Cellulose and Its Esters. Part XXII. Nitration of Cellulose in an Homogeneous Medium. (In Russian.)** Z. Rogovin K. Tikhonov, and A. Maslova. *Journal of Applied Chemistry* (U.S.S.R.), v. 19, no. 7, 1946, p. 659-667.

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157 AND 158 COLUMNS      PROCEEDS AND PROCEEDS WITH

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**Investigation of the Structure and Properties of Cellulose and Its Esters. Part XXII. Nitration of Cellulose in an Homogeneous Medium. (In Russian.)** Z. Rogovin K. Tikhonov, and A. Maslova. *Journal of Applied Chemistry* (U.S.S.R.), v. 19, no. 7, 1946, p. 659-667.

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

157 AND 158 COLUMNS      PROCEEDS AND PROCEEDS WITH

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**Investigation of the Structure and Properties of Cellulose and Its Esters. Part XXII. Nitration of Cellulose in an Homogeneous Medium. (In Russian.)** Z. Rogovin K. Tikhonov, and A. Maslova. *Journal of Applied Chemistry* (U.S.S.R.), v. 19, no. 7, 1946, p. 659-667.

A method of cellulose nitration has been developed using as a nitrating mixture the binary compound of nitric acid with nitromethane or the ternary compound of nitric acid, nitromethane, and dichloromethane or methylene chloride. The influence of various factors on the process was studied.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

**Nitration of cellulose.** Z. A. Rogovin and K. Likhonin. *Org. Chem. Ind. (U. S. S. R.)* 1, 70 (1960); *Ch. C. A.* 29, 30207. --The effect of the structure of cellulose fiber on the kinetics of esterification was studied by nitrating ramie, cotton and wood pulp with a mixt. of  $\text{HNO}_3$  21,  $\text{H}_2\text{SO}_4$  70 and  $\text{H}_2\text{O}$  9% at 50°. The degree of nitration was detd. at definite intervals (2, 5, 10, 15 min.), the kinetics of the reaction by calorimetric measurements of the rate of heat liberation for every 15 sec., and the rate of diffusion by the relative rise of the nitrating acid through a suspended fiber previously treated with diphenylamine. The rate of nitration increases with increasing distance between micelles or between the sup. chains conditioned by decreased orientation of particles or by increased swelling of cellulose fiber. This factor influences the kinetics of nitration to a considerably greater extent than the changes of principal valence chains. The results agree with those of Blod and Schmid-Hempel (C. A. 48, 45819) for the kinetics of cellulose acetylation. C. W.

IVANOV, I., kand. tekhn. nauk; TIKHONOV, K., kand. tekhn. nauk; PETROV, D. inzh.;  
SHMYREV, A.

Let us urge the technical reconstruction of railroad transportation. MFO no. 4:26-29 Ap '59. (MIRA 12:6)

1. Predsedatel' seksii elektrifikatsii i energetiki TSentral'nogo pravleniya nauchno-tekhnicheskogo obshchestva zheleznodorozhnogo transporta (for Ivanov). 2. Chleny seksii eksploatatsii TSentral'nogo pravleniya nauchno tekhnicheskogo obshchestva zheleznodorozhnogo transporta (for Tikhonov, Petrov). 3. Zamestitel' predsedatelya seksii signalizatsii i svyazi TSentral'nogo pravleniy nauchno-tekhnicheskogo obshchestva zheleznodorozhnogo transporta (for Shmyrev).  
(Railroad research)



107-57-3-19/64

**AUTHOR:** Tikhonov, K. (pos. Orotukan, Magadan oblast)

**TITLE:** An Emergency Lighting. Suggestions of Rural Radio Men  
(Avariynoye osveshcheniye. Sel'skiye radiofikatory predlagayut)

**PERIODICAL:** Radio, 1957, Nr 3, p 17 (USSR)

**ABSTRACT:** A simple emergency lighting system is described which consists of an electromagnetic relay whose winding is connected in series with the normal lighting system and whose contacts control the circuit of an emergency lighting system supplied by a small battery. With the normal lighting "on," the relay is energized and holds its contacts open. In the case of main lighting-supply failure, the relay closes its contacts and turns on the emergency lighting. The arrangement is used at a wire-broadcast station. A type BNS-MVD-500 dry battery was used as a source of emergency power. There is one figure in the article.

...  
... library of ...

Card 1/1

~~TIKHONOV, K.~~ (pos. Orotukan, Magadanskoy oblasti); SAMOYLOV, K. (g. Cherkessk, Stavropol'skogo kraja); GELIVER, V. (g. Gadyach, Poltavskoy oblasti)

Rural radio workers propose... Radio no.3:17 Mr '57. (MLRA 10:5)

(Radio)

TIKHONOV, K.

Author of the book "Formirovanie i ras-

[Making and breaking up of trains in winter] Formirovanie i ras-  
formirovanie poezdov zimoi. Izd. 2., perer. i dop. Moskva, Trans-  
zheldorizdat, 1947. 189 p. (MLRA 7:12)  
(Railroads--Making up trains) (Railroads--Cold weather ope-  
ration)

1. TIKHONOV, K.
2. USSR (600)
4. Coal Mines and Mining
7. Accomplishments of the innovators of the "Polysaevskaya-1" mine.  
Mast. ugl. 1 no. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

TIKHONOV, K.; SOSONKIN, L.; KRASNIKOV, B.I., red.; STUDENETSKAYA,  
V.A., tekhn. red.

[Socialist discipline of work in railroad transportation]  
Sotsialisticheskaya distsiplina truda na zheleznodorozhnom  
transporte. Moskva, Transzheldorizdat, 1951. 80 p.  
(MIRA 16:8)

(Railroads--Employees) (Labor discipline)

TIKHOMOV, K. B.

"Angio-and lymphadenography in conditions of natural contrast."

to be presented at the Radiology Congress, Karlovy Vary,  
Czechoslovakia, 10-14 June 63

TIKHONOV, K.B., kandidat meditsinskikh nauk (Leningrad)

Movements of the thorax and blood circulation. Klin. med. 32 no.7:  
17-24 J1 '54. (MLRA 7:8)

(TORAX, physiology

\*movements, eff. on blood circ.)

L 27572-66 .ENT(m)

ACC NR: AP6018380

SOURCE CODE: UR/0241/65/010/004/0062/0065

AUTHOR: Tikhonov, K. B.; Chalisov, I. A.

ORG: Military-Medical Order of Lenin Academy im. S. M. Kirov, Leningrad (Voyenno-meditsinskaya ordena Lenina akademiya)

TITLE: State of walls of large blood vessels in acute radiation sickness

SOURCE: Meditsinskaya radiologiya, v. 10, no. 4, 1965, 62-65

TOPIC TAGS: radiation sickness, cardiovascular system, dog, rabbit, x ray irradiation, pathology, radiation biologic effect

ABSTRACT: In order to discover the causes of functional changes in vessels, in addition to roentgenological (arteriography) the author undertook the microscopic study of structure of large arteries and the aorta in 17 dogs and 15 rabbits. Transverse celloidin sections of vessels were stained with hematoxylin-eosin after van Gizon. Angiography was also instituted. All animals underwent single whole-body x-ray irradiation under the following technical condition: dogs -- simultaneous bilateral irradiation, tube voltage 180 kilovolts, current strength 15 milliamperes, filter 0.5 mm Cu, skin-focal distance (anode-sagittal plane of the body) 120 cm, dose strength 7 roentgens/minute; rabbits -- skin-focal distance 70 cm, dose strength 12 roentgens/minutes. The dogs were irradiated at doses of 400-500 roentgens,

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UDC: 616-001.28-036.11-07:616.131.14-091.8-07



L 27572-66

ACC NR: AP6018380

rabbits -- 800 roentgens. Acute radiation sickness developed in all animals with typical clinical and hematological symptoms. All carcasses of succumbed animals underwent pathologoanatomical autopsy, which confirmed the diagnosis of acute radiation sickness with pronounced hemorrhagic syndrome and necrotic foci in intestinal and tonsillar mucosa. Microscopic examination of walls of large vessels (arteries and veins) did not detect pathological changes. The investigation showed that in general no histological elements of large blood vessels in acute radiation sickness when usual methods of histological study are used revealed distinct symptoms of pathological changes. Focal lesions of endothelium or hypertrophy of the endothelium in several large vessels revealed by means of the special N. A. Shevchenko method could scarcely affect the main hemodynamic functions of large vessels by altering their lumens. Any destructive changes in blood vessel walls would have promoted disruption of their contractibility, at least in some sections. Angiographic data shows that the intense contraction of large vessels during the peak of the radiation sickness uniformly involved vessels over a long extent. In the case of mass irradiations of the entire body or a major portion of it, in a short time the state of the vessels depends on the overall reaction of the organism to irradiation. In this case, small vessels, being physiologically the most active, are more severely injured; main vessels generally do not undergo substantial structural changes. In local irradiation in large doses any, including the largest, vessels in the irradiation zone are damaged. These injuries can be so profound that total breakdown of their walls occurs. In local irradiation, direct action is

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L 27572-66

ACC NR: AP6018380

evidenced chiefly on vascular walls. Consequently, in viewing the problem of effective radiation on vessels, irradiation conditions and the damaging effect of irradiation on different tissues, in particular vascular tissues, must be strictly defined. /JPRS/ 0

SUB CODE: 06 / SUBM DATE: 27Mar63 / ORIG REF: 010 / OTH REF: 008

Card 3/3 CC

TIKHONOV, K.B., kandidat meditsinskikh nauk

An apparatus for angiocardiology [with summary in English].  
Vest.rent. i rad. 32 no.1:73-76 Ja-F '57. (MLRA 10:6)  
(ANGIOGRAPHY, appar. and instruments  
apparatus for angiocardiology)

EXCERPTA MEDICA Sec.18 Vol.1/9 Cardiovascular Sept 57

2499. TIKHONOV K. B. *A device for angiography (Russian text)* Vestn. Röntgenol. Radiol. 1957, 32/1 (73—76) Illus. 11

The work of the apparatus is based on the change of plate holders. Each holder passes through the 3 main parts of the unit. The first part is charged with unexposed ones, in the 2nd they are exposed and the 3rd (the receiver) holds the exposed ones. The stack of plate holders in the first part is raised by steps, each time to a height equalling the thickness of one holder. The uppermost holder is shifted into the 2nd part of the unit by means of a horizontal rod fixed on 2 chains. A special prominence on one of the chains switches the X-ray tube on and off through a time relay. The next plate holder, also moving into the 2nd part, shifts the preceding already exposed holder into the receiver. The gradual elevation of the stack of holders in the first section and their lowering into the 3rd section are effected by 4 powerful springs and a separator. The rod transferring the holders is set in motion by an electrical motor through a friction gear which also serves to adjust the speed at which the holders are supplied (in the limits of from 1 to 3 holders per sec.). A fine grid is attached over the middle section of the unit. The unit is charged with 8 wooden holders 30 x 40 cm. which facilitate their transfer. Large-sized holders make the unit universally applicable for examination of the cardiovascular system. The patient (or animal) under study is placed on a separate table installed over the unit in the required position (lengthwise or perpendicularly). (XIV, 9. 18)

USSR/Morphology of Man and Animals (Normal and Pathological).  
Experimental Methods and Technique.

S-1

Abs Jour : Ref Zhur - Biol., No 6, 1958, 26371

Author : Tikhonov, K.B.

Inst :

Title : On Experimental Translumbar Aortography.

Orig Pub : Vestn. rentgenol. i radiologii, 1956, No 2, 29-31.

Abstract : Eighteen cardiographs were done on 5 dogs and 3 rabbits using Kardiotrast and Tototrast. The animals were placed in a prone position and a needle, 1.5 mm in diameter, was introduced paravertebrally. The animals calmly tolerated the introduction of 20 ml of 50% Kardiotrast for 2.5-3 sec. and in 30-40 min. their condition was the same as before the injection. The introduction of a 70% solution caused some reaction. The rabbits proved to have less stamina than the dogs. The arteriograms with Kardiotrast were the same as those with Tototrast.

Card 1/2

*TIKHONOV, K.B.*  
EXCERPTA MEDICA Sec.14 Vol.11/10 Radiology Oct 57

1737. TIKHONOV K.B. \*A device for angiography (Russian text)  
VESTN. RENTGENOL. RADKOL. 1957, 32/1 (73-76) illus. 11  
The work of the apparatus is based on the change of plate holders. Each holder passes through the 3 main parts of the unit. The first part is charged with unexposed holders, in the 2nd they are exposed and the 3rd (the receiver) holds the exposed ones. The stack of plate holders in the first part is raised by steps, each time to a height equalling the thickness of one holder. The uppermost holder is shifted in-

1737

CONT.

to the 2nd part of the unit by means of a horizontal rod fixed on 2 chains. A special prominence on one of the chains switches the X-ray tube on and off through a time relay. The next plate holder, also moving into the 2nd part shifts the preceding already exposed holder into the receiver. The gradual elevation of the stack of holders in the first section and their lowering into the 3rd section are effected by 4 powerful springs and a separator. The rod transferring the holders is set in motion by an electrical motor through a friction gear which also serves to adjust the speed at which the holders are supplied (in the limits of from 1 to 3 holders per sec.). A fine grid is attached over the middle section of the unit. The unit is charged with 8 wooden holders 30 x 40 cm. which facilitate their transfer. Large-sized holders make the unit universally applicable for examination of the cardiovascular system. The patient (or animal) under study is placed on a separate table installed over the unit in the required position (lengthwise or perpendicularly). (XIV, 9, 18)

KUZNETSOV, V.I., polkovnik med. sluzhby; BARONOV, V.A., polkovnik med. sluzhby;  
TITOV, A.I., polkovnik med. sluzhby, dots.; FIALKOVSKIY, V.V., polkovnik  
med. sluzhby; SMIRNOV, K.K., polkovnik med. sluzhby, kand. med. nauk;  
DOVZHENKO, G.I., polkovnik med. sluzhby; DIVNENKO, P.G., polkovnik med.  
sluzhby; GORYUSHIN, G.S., podpolkovnik med. sluzhby; SHCHERBEKOV, N.I.  
podpolkovnik med. sluzhby; ZHUK, Ye. G., podpolkovnik med. sluzhby; BUTOMO,  
N.V., mayor med. sluzhby; PREOBRAZHENSKIY, P.V., mayor med. sluzhby;  
TIKHONOV, K.B., mayor med. sluzhby

Clinical manifestations in subjects exposed to prolonged ionizing ir-  
radiation. Voen. med. zhur. no.2:40-43 Y '57 (MIHA 12:7)

(RADIATIONS, effects,

clin. manifest. in subjects exposed to prolonged ionizing  
irradiation (Rus))



TIKHONOV, K.B., kand.med.nauk

Angiography in acute radiation sickness. [with summary in English]  
Vest.rent. 1 rad. 33 no.4:60-63 J1-Ag '58 (MIRA 11:8)

1. Iz Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova  
(nach. - prof. P.F. Goncharov).

(RADIATION, inj. eff.

blood vessel changes, determ. by angiography in animals  
(Rus))

(BLOOD VESSELS, eff. of radiations on  
changes, determ. by angiography in animals (Rus))

17(7)

SOV/177-58-11-8/50

AUTHOR:

Tikhonov, K.B., Lieutenant-Colonel of the Medical  
Corps, Candidate of Medical Sciences

TITLE:

Methods of Determining the Location of a Foreign  
Body

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 11, pp 27 -  
30 (USSR)

ABSTRACT:

Many authors, including Sh.I. Abramov, V.S. Vakhtel' and M.I. Nemenov, described in detail the existing methods of determining the location of foreign bodies. Although V.I. Feoktistov's method of straight coordinates distinguishes itself by special exactness, the author criticizes it. In his opinion, a skin surface cannot be a reliable orienting point for determining the location of a foreign body. The author suggests a method successfully applied by him which is based on the coincidence of the shadows of a foreign body on shifting two roentgenograms taken from various points. The essence of this method is given

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SOV/177-58-11-8/50

Methods of Determining the Location of a Foreign Body

as follows: From 2 points, A and B (Figure 1), 5 cm distant on both sides from the middle line, two roentgenograms are taken with an 80 cm focal distance. All the time, the patient lies immobile. Both cassettes are to be laid consecutively strictly on the same place. Four lead marks in the form of small strips or triangles are laid on the patient's body in a way that they give shadows at the corners of both roentgenograms. In the further course, these shadows will serve as orienting points for the correct superposition of the roentgenograms one upon the other. The foreign bodies give, at each of the two roentgenograms, a different position of their shadows with respect to each other and to the bones. In order to achieve the coincidence of the shadows of the foreign bodies most distant from the film (level 1, fig. 1), a greater shifting of the roentgenograms is necessary than for the coincidence of the shadows of the foreign body which is nearest to the film

Card 2/3

SOV/177-58-11-8/50

Methods of Determining the Location of a Foreign Body

(level III, fig. 1). According to the degree of the shifting of the films, the depth of the location of the foreign body in the articulatio coxae is demonstrated. The method suggested gives exact presentation of the distal relation of the foreign bodies to the bones next to them, to their fragments and organs. All this is of great importance for the operation. There are 4 photographs and 1 graph.

Card 3/3

TIKHONOV, K.B., kand.med.nauk

Arteriography through the lesser circulation. Vest.rent.i md. 34  
no.6:72-73 N-D '59. (MIRA 13:5)

1. Iz Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova  
(nach. - general-mayor meditsinskoy sluzhby prof. P.P. Goncharov).  
(ANGIOGRAPHY)

TIKHONOV, K.B.

Changes in the reactivity of the large blood vessels in acute  
radiation sickness. Med. rad. 5 no. 1:11-14 N '60. (MIRA 13:12)  
(RADIATION SICKNESS) (BLOOD VESSELS)

TIKHONOV, K.B.

Carbon dioxide as a contrast substance in studies of the  
heart cavity. Vest.khir. 84 no.1:67-71 Ja '60.

(MIRA 13:10)

(ANGIOCARDIOGRAPHY) (CARBON DIOXIDE)

TIKHONOV, K.B., podpolkovnik meditsinskoy sluzhby, kand.med.nauk

Use of a vibratory laundry apparatus for deactivation. Voen.-med.  
zhur. no. 1:84-85 Ja '60. (MIRA 14:2)  
(DECONTAMINATION--EQUIPMENT AND SUPPLIES)



TIKHONOV, K.B., starshiy nauchnyy sotrudnik (Leningrad, V-178, V.O. 16-ya liniya, d.49, kv.2)

Vasoactive effect of cardiotrast. Vest. rent. i rad. 36 no. 1:20-28  
Ja-F '61. (MIRA 14:4)

1. Iz Voenno-meditsinskoy ordena Lenina akademii imeni S.M.  
Kirova.

(CONTRAST MEDIA—PHYSIOLOGICAL EFFECT)

TIKHONOV, Konstantin Borisovich; KATSMAN, A.Ya., red.; SAFRONOVA, I.P.,  
tekhn. red.; KHARASH, G.A., tekhn. red.

[Angiography; methods and technics for contrast study of the  
blood vessels and cavities of the heart] Angiografiia; metodika  
i tekhnika kontrastnogo issledovaniia krovenosnykh sosudov i  
polostei serdtsa. Leningrad, Medgiz, 1962. 279 p.  
(ANGIOCARDIOGRAPHY) (MIRA 15:4)

27.2400

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S/241/62/007/006/001/001

1015/1215

AUTHOR: Tikhonov, K. B.

TITLE: Hypotension and vasoconstriction in acute radiation sickness

PERIODICAL: Meditsinskaya radiologiya, v. 7, no. 6, 1962, 58-68

TEXT: The purpose was to study the volume of blood in circulation in irradiated animals, their blood pressure, and the diameter of blood vessels. Experiments were carried out on 18 dogs weighing 10-14.7 kg. At the height of radiation sickness, a sharp vasoconstriction of the pelvic and peripheral vessels was caused by a decrease in the volume of circulating blood. When this was increased there was a marked change in the roentgenological picture of the vessels. The author concludes that hypotension in acute radiation sickness is caused mainly by the reduced volume of circulating blood, since the latter appeared much earlier than cardiac insufficiency and was present also in animals which survived the radiation sickness. Vasoconstriction is considered to be a compensatory mechanism for maintaining optimal blood pressure in conditions of reduced blood volume. There are 4 figures and 3 tables.

ASSOCIATION: Voenno-meditsinskaya ordena Lenina akademiya imeni S. M. Kirova. (The Military-Medical Academy of the Order of Lenin, imeni S. M. Kirov).

SUBMITTED: January 22, 1962

Card 1/1

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institut Ministerstva zdravookhraneniya SSSR, Leningrad (for Tikhonov,  
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BENESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YER-SHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUHIN, N.I., inzhener; MARKVADT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHNEV, M.A., doktor tekhnicheskikh nauk; ENIN, L.Ye., professor, doktor tekhnicheskikh nauk; YURENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BERNGARD, K.A., kandidat tekhnicheskikh nauk; BOROVVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;

(Continued on next card)

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VASIL'YEV, V.F.; GONCHAROV, H.G., inzhener; DERIBAS, A.T., inzhener;  
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